

## **Team 203-4: Dumpster Devs**

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**Project Name:** Sports Stats Master - <http://sportsstatsmaster.com>

### **Unit Testing**

- We will be using the pytest package to write unit tests for various features. Most of the unit testing will begin with exclusively testing the account functionality. We will have test data in a separate file or it will be described inline.

### **Integration testing**

- This will be done with generous testing whenever possible by running our site locally with debug mode so we can easily understand errors and ensure a working product. We have been doing this.

### **User Acceptance Test Plan: 3 features that will be tested**

- Displaying data
  - Statistics are pulled from the API or the database and presented according to determined categories ie. by sport
    - Users can interact with data to add a player to a list of favorites
    - Players/Teams do not appear on a page that is not for their sport
      - Accurate results are pulled based off constraints
    - Users can sort data according to various attributes (ie. position)
    - Users can search for a specific item
    - If data cannot be loaded or found based off constraints, an error message will appear prompting the user to enter different details
    - The proper athletes populate after the user searches within the search bar and the proper teams/players show in each sports page
- Regular Expressions validation for registration and login
  - Error messages for incompatible username/email fields, and for unmatching password confirmation. Error messages are displayed under each form.
    - Username must be between 3 and 20 characters
    - Email must follow appropriate form and qualifications
    - Passwords should match
    - Username and password cannot be already existing in the database.
  - Email validation for login page
    - Displays "Login unsuccessful" if information doesn't match and "You have logged in" if it was a successful login attempt
- Download Data File

- Based on an inputted year (if in the range for the sport), the dropdown for the teams selection should be updated with the correct team names (this changes because teams change names/locations)
  - The site flashes the page if form is not able to be validated
- The dataset that is downloaded can be accessed later because the file is stored in the database or the location of the file is stored in the database.

## Individual Contributions:

Zoe: Added account page and integrated modification features through flask

David:

- Completed download data functionality. Finished bug fixes for that feature, and connected database to files that were downloaded by the user. I worked on POC for charting and am integrating API, form, and chart visualization. [Latest Commit: David](#)

John:

- Created the about and compare page. Created the python function to label and extract statistics of each player. Added sample graph for comparing players' statistics. [Latest Commit: John](#)

Makayla:

- Created the registration page that was able to work with the different packages downloaded. Worked on adding style aspects to the site. Worked on user interface design for account. [Latest Commit: Makayla](#)

Quinn:

- Worked on the player database design and connection using pandas and pyodbc. Wrote db\_helper.py script that loaded the player data into site.db. Did extensive research for database connection to provide documentation for teammates to refer to for future use. [Latest Commit: Quinn](#)

Mitch:

## Current Sprint Board:

▼ Compare and Visualize Data 5 issues			Start sprint	Linked pages 0	...
Ability for users to select a few players of the same sport in order to compare and visualize stats in graph or other format. Maybe be able to do a "6 degrees of Kevin Bacon"...					
📌 Single Player Stats Chart over date range		D24-27	↑	3	
📌 As a user I want to see what relations some stats have with others	Compare and Visualize ...	D24-10	↑	3	
📌 Generate graphs through Chart.js for both team and individual stats		D24-24	↑	4	
📌 Athlete Performance Rating Algorithm	Compare and Visualize ...	D24-22	↓	-	
📌 Complete form for sport/criteria selection		D24-28	↑	-	
+ Create issue					
			5 issues Estimate 10		